

## Message Text

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ACTION NEA-16

INFO OCT-01 ISO-00 AEC-11 ACDA-19 CIAE-00 INR-10 IO-14

L-03 NSAE-00 NSC-07 RSC-01 SCI-06 FEA-02 AGR-20

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H-03 INT-08 OMB-01 PM-07 SAM-01 SP-03 SS-20 STR-08

TRSE-00 PRS-01 PA-04 USIA-15 NSF-04 CEQ-02 EPA-04

DRC-01 /228 W

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R 231255Z MAY 74

FM AMEMBASSY TEHRAN

TO SECSTATE WASHDC 6581

C O N F I D E N T I A L TEHRAN 4169

E.O. 11652: GDS

TAGS: PFOR, ENRG, IR

SUBJECT: US-IRANIAN COOPERATION: AEC TEAM VISIT

REF: STATE 101130

### SUMMARY

1. AEC TEAM HEADED BY CHAIRMAN DIXY LEE RAY VISITED IRAN ON MAY 20-21 AT THE INVITATION OF THE GOVERNMENT OF IRAN AND CARRIED ON EXTENSIVE CONVERSATIONS WITH IRANIAN AUTHORITIES HEADED BY ASSISTANT PRIME MINISTER AND PRESIDENT OF THE NATIONAL ATOMIC ENERGY ORGANIZATION DR. AKBAR ETEMAD. DURING THE COURSE OF THE VISIT THE TEAM HAD A LONG SESSION WITH MINISTER OF ENERGY, DR. IRAJ VAHIDI, AND CHAIRMAN RAY WAS RECEIVED BY THE SHAH FOR PRIVATE AUDIENCE (DR. RAY WILL BE PREPARING A MEMCON OF HER CONVERSATION WITH THE SHAH). SEVERAL OTHER MEMBERS OF THE TEAM HELD SEPARATE DISCUSSIONS DURING VISITS TO THE TUNC (TEHRAN UNIVERSITY NUCLEAR CENTER)

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AND ARYA MEHR UNIVERSITY.

2. APART FROM THE VISIT WITH THE MINISTER OF ENERGY THE TWO SIDES DISCUSSED THE FOLLOWING AGENDA DURING APPROXIMATELY SEVEN HOURS OF DETAILED AND SPIRITED EXCHANGE.

AGENDA:

A. TRAINING OF NUCLEAR TECHNOLOGISTS, TECHNICIANS AND OPERATORS;

B. RESEARCH AND DEVELOPMENT (NUCLEAR PHYSICS AND CHEMISTRY, REACTOR PHYSICS AND TECHNOLOGY);

C. AGRICULTURAL, INDUSTRIAL, MEDICAL AND OTHER APPLICATIONS OF NUCLEAR ENERGY;

D. CURRENT DEVELOPMENT IN POWER REACTOR TECHNOLOGY SUCH AS HIGH TEMPERATURE GAS-COOLED REACTOR;

E. APPLICATION OF NUCLEAR ENERGY TO WATER DESALINATION;

F. ENVIRONMENT AND NUCLEAR SAFETY;

G. SITING OF NUCLEAR POWER STATIONS.

3. IRANIAN SIDE WAS MADE UP OF THE BEST TRAINED MINDS IN NUCLEAR ENERGY MATTERS AVAILABLE TO THE GOI. HEADED BY DR. AKBAR ETEMAD, THE REMAINDER OF THE TEAM WAS MADE UP OF THE FOLLOWING:

MR. GHOLAMREZA HAZRATI: UNDERSECRETARY IN CHARGE OF DELECTRICYT, MINISTRY OF ENERGY

MR. MBAHMAN PARSA: DIRECTOR, TEHRN UNIVERSITY NUCLEAR CENTER (TUNC)

MR. HAMID RAFIZADEH: VICE CHANCELLOR, TEHRAN POLYTECHNIC

MR. MASSOOD KASRAI: CHAIRMAN, DEPARTMENT OF NUCLEAR SCIENCES, TEHRAN UNIVERSITY

MR. ARSALAN BAZANI: CHAIRMAN, DEPARTMENT OF MECHANICAL ENGINEERING, PAHLAVI UNIVERSITY

MR. ALI SEKHAVAT: HEAD, RADIOISOTOPES APPLICATION CENTER, CONFIDENTIAL

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ARYA MEHR UNIVERSITY

MR. FARHANG SEFIDVASH: ASSOCIATE PROFESSOR, ARYA MEHR UNIVERSITY

MR. PIRAN SIOUSHANSI: HEAD, VAN DE GRAAF ACCELERATOR, TUNC

MR. ALI PAZIRANDEH: HEAD, PLANNING OF EXPERIEMENTS, TUNC

4. AEC TEAM URGED IRANIAN SIDE TO GET ON WITH THE JOB

OF SITE SELECTION AS SOON AS POSSIBLE WITH PARTICULAR REFERENCE TO THE COLLECTION OF SUFFICIENT SEISMIC DATA TO PROVIDE THE BASIS FOR EARLY JUDGMENTS AS TO TYPE OF CONSTRUCTION NECESSARY FOR NUCLEAR POWER STATIONS.

5. AEC TEAM BRIEFED GOI ON THE VARIOUS TYPES OF REACTORS NOW IN COMMERCIAL USE AS WELL AS THOSE UNDER STUDY AND IN EARLY STAGES OF DEVELOPMENT. CONSIDERABLE DISCUSSION TOOK PLACE CONCERNING DUAL USE REACTORS, ESPECIALLY INVOLVING DESALTING.

6. DURING FINAL SESSION ON AFTERNOON 21 MAY, CHAIRMAN RAY OFFERED THE FOLLOWING:

A. CLEARING HOUSE SERVICES FOR IRANIAN NUCLEAR ENERGY REQUEST AND NEEDS, I.E. AEC WILL ASSIST THE GOI IN GETTING IN TOUCH WITH THE PROPER COMPANIES OR AGENCIES ON SPECIFIC MATTERS.

B. POSSIBILITY THAT AEC CAN PROVIDE SOME TRAINING PROGRAMS AND COURSES REQUIRED BY IRANIAN AUTHORITIES. SHE MENTIONED SEVERAL TIMES THAT COMPANIES PROVIDING HARDWARE SELECTED BY GOI WOULD BE BEST SUITED FOR TRAINING IN SPECIFIC REACTOR AND POWER GENERATION SYSTEMS.

C. AEC WILL PROVIDE A LIST OF AMERICAN CONSULTING FIRMS IN THE NUCLEAR ENERGY FIELD.

D. IN RESPONSE TO DR. ETEMAD'S REQUEST FOR INFORMATION ON OBTAINING URANIUM ENRICHING SERVICES, A DRAFT AEC ENRICHMENT CONTRACT AND A COPY OF THE ENRICHMENT CRITERIA WAS PROVIDED HIM.

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E. AGREED TO PROVIDE A DRAFT CPY OF A NEW AGREEMENT FOR COOPERATION BETWEEN IRAN AND THE U.S. AS SOON AS THE LANGUAGE CAN BE CLEARED BY THE DEPARTMENT OF STATE.

F. AEC AND IRAN SHOULD EXPLORE A POSSIBILITY OF A SISTER LABORATORY ARRANGEMENT THROUGH WHICH MANY OF IRAN'S REQUESTS MIGHT BE ANSWERED MORE EFFICIENTLY.

7. CHAIRMAN RAY SUGGESTED THAT THE POSSIBILITY MIGHT BE CONSIDERED OF FORMING A JOINT US/IRAN ATOMIC ENERGY ADVISORY TEAM WHICH WOULD PERMIT FREQUENT AND DETAILED DISCUSSIONS OF IRANIAN NEEDS. DR. ETEMAD, WHILE EXPRESSING SOME INTEREST IN THIS APPROACH, DID NOT RPT NOT FOLLOW THROUGH SO THAT WE ARE UNCERTAIN WHETHER THEY ARE ACTIVELY INTERESTED IN SUCH A JOINT EFFORT.

8. DR. RAY URGED THE IRANIANS TO BEGIN EARLY STUDIES ON THE APPROACH IRAN WILL TAKE TO MEET ITS NUCLEAR POWER NEEDS. SPECIFICALLY SHE SUGGESTED THAT IRANIAN SPECIALISTS BEGIN AS SOON AS POSSIBLE TO VISIT AMERICAN INSTALLATIONS, COMMERCIAL AND RESEARCH, IN ORDER TO ACQUIRE INFORMATION FROM THEM ON THE OPERATING NEEDS AND SPECIAL REQUIREMENTS OF EACH OF THE DIFFERENT DESIGNS. DR. ETEMAD INDICAED THAT THE GOI WILL BE SENDING PEOPLE TO THE US FOR THIS PURPOSE AS WELL AS TO PURSUE A NEW AGREEMENT AND A CONTRACT FOR URANIUM ENRICHMENT SERVICES.

9. COMMENT: EMBASSY CONSIDERS AEC TEAM VISIT TO HAVE BEEN HIGHLY SUCCESSFUL IN IMPRESSING ON IRANIAN AUTHORITIES US INTEREST IN ASSISTING THEM IN GETTING ON WITH THEIR NUCLEAR POWER PROGRAM. WHILE SPECIFIC AGREEMENTS WERE LEFT SOMEWHAT UNDEFINED, A SOUND BASIS HAS BEEN LAID FOR CONTINUING DISCUSSIONS IN THE FUTURE. IRANIANS FIELDDED A HIGHLY ARTICULATE AND QUALIFIED TEAM WHICH WAS IMPRESSIVE BOTH FOR ITS GRASP OF THE SUBJECT MATTER AND FOR ITS FAMILIARITY WITH THE MOST RECENT DEVELOPMENTS IN THE NUCLEAR ENERGY FIELD. ON OUR SIDE CHAIRMAN RAY AND HER ASSOCIATES WERE EQUALLY IMPRESSIVE BOTH FOR THEIR TECHNICAL COMPETENCE AND SKILL IN PRESENTING THEIR SUBJECT MATTER TO THEIR PROUD AND SENSITIVE HOSTS. MIKLOS  
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## Message Attributes

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